Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for manufacturing thin film devices 1 2 comprising: during a polishing process, irradiating white light onto an area of a thin film 3 device having an optically transparent film formed thereon; during polishing; 4 detecting reflected light reflected from said area of said thin film device due to the 5 irradiation of said white light when said thin film device is at a predetermined position, a 6 position of said thin film device being determined based on information from a position sensor 7 8 and a rotation detector; 9 calculating a spectral waveform of said detected light; 10 correcting distortions in the spectral waveform; and of said reflected light which 11 is distorted by slurry used during polishing; and determining the a thickness of said optically transparent film at said 12 predetermined position on said area by using information from the spectral waveform of the 13 14 reflected light thus detected. 1 2. (currently amended) The method for manufacturing thin film devices according to claim 1, wherein said areas predetermined position is are determined on the basis of 2 previously measured information for the film thickness distribution of thin film devices created 3 by the same process as said thin device. 4

1.	3. (currently amended) A method for manufacturing thin film devices
2	comprising:
3	determining a set of measurement positions on a thin film device on the basis of
4	spectral waveform information;
5	(i) during a polishing process, irradiating white light onto an optically
6	transparent film formed on an area of a said thin film device during a polishing process when
7	said thin film device is at one of said measurement positions, a position of said thin film device
8	being determined based on information from a position sensor and a rotation detector;
9	(ii) detecting reflected light reflected from said area of said thin film device
10	due to the irradiation of said white light;
11	setting regions for measuring the film thickness using information relating to a
12	characteristic quantity of a spectral waveform of said reflected light generated by said thin film
13	device;
14	(iii) calculating a spectral waveform of said detected light;
15	(iv) correcting distortions in the spectral waveform of said reflected light
16	which is distorted by slurry used during the polishing process;
17	(v) determining the a thickness of said optically transparent film at said one of
18	said measurement positions said regions by using information from the corrected spectral
19	waveform of the reflected light in the regions thus set; and
20	monitoring said polishing process by performing steps (i) through (v) for one or
21	more of said measurement positions. using the information for the thickness of the optically
22	transparent film thus determined.
1	4. (currently amended) The method for manufacturing thin film devices
1	• • •
2	according to claim 3, wherein the measurement positions are determined based on a
3	predetermined characteristic quantity of said spectral waveform information. said regions for
4	measuring film thickness are determined using said spectral waveform of said reflected light.

J.	5. (currently amended) A method for manufacturing thin film devices
2	comprising:
3	setting measurement positions for determining a thickness of an optically
4	transparent film formed on the surface of a thin film device;
5	(i) during a polishing process, irradiating white light onto said an optically
6	transparent film when said thin film device is at one of said measurement positions, a position of
7	said thin film device being determined based on information from a position sensor and a
8	rotation detector; formed on the surface of a thin film device, during a polishing process;
9	(ii) detecting <u>light</u> reflected light from said thin film device due to the
10	irradiation of said white light;
11	setting prescribed regions for determining the film thickness;
12	(iii) calculating a spectral waveform of said detected light;
13	(iv) correcting distortions in the spectral waveform; of said reflected light
14	which is distorted by slurry used during the polishing process;
15	(v) determining the a thickness of said optically transparent film at said one of
16	said measurement positions on the basis of the corrected spectral waveform of said reflected light
17	from the prescribed regions thus set; and
18	monitoring said polishing process by performing steps (i) through (v) for one or
19	more of said measurement positions. using the information for the thickness of the optically
20	transparent film thus determined.
1	6. (currently amended) The method for manufacturing thin film devices
2	according to claim 5, wherein a plurality of prescribed regions measurement positions for
3	determining said film thickness are set, the film thickness at each of the plurality of regions
4	measurement positions thus set is determined, information relating to the film thickness
5	distribution on said thin film device is obtained, and said polishing process is monitored using
	the information relating to the film thickness distribution thus obtained.
6	the information relating to the min thickness distribution thus obtained.

1.	7. (currently amended) A method for manufacturing thin film devices
2	comprising:
3	(i) during a polishing process, irradiating white light onto an optically
4	transparent film formed on prescribed regions of a thin film device when said thin film device is
5	at a predetermined position, a position of said thin film device being determined based on
6	information from a position sensor and a rotation detector; during polishing;
7	(ii) detecting <u>light</u> reflected light from said thin film device due to the
8	irradiation of said white light;
9	(iii) calculating a spectral waveform of said detected light;
10	(iv) correcting distortions in the spectral waveform; of said reflected light
11	which is distorted by slurry used during the polishing process;
12	(v) determining the a thickness of said optically transparent film at said
13	predetermined position by using information relating to said corrected spectral waveform of the
14	reflected light from said prescribed positions; and
15	monitoring said polishing process by performing steps (i) through (v) for said
16	predetermined measurement position. using the information for the thickness of the optically
17	transparent film thus determined.
1	8. (currently amended) The method for manufacturing thin film devices
2	according to claim 7, wherein the information relating to said corrected spectral waveform is the
3	reflection intensity of said corrected spectral waveform.
1	9. (currently amended) The method for manufacturing thin film devices
2	according to claim 7, wherein the information relating to said corrected spectral waveform is the
3	frequency spectrum intensity of said corrected spectral waveform.

- 10. (currently amended) The method for manufacturing thin film devices
 according to claim 3, wherein said regions predetermined position for measuring film thickness
 are is determined using the reflectivity of said area of said thin film device with respect to said
 white light.
- 1 11. (currently amended) The method for manufacturing thin film devices
 2 according to claim 3, wherein said regions measurement positions for measuring film thickness
 3 are determined using the a frequency spectrum of said spectral waveform of said reflected light.